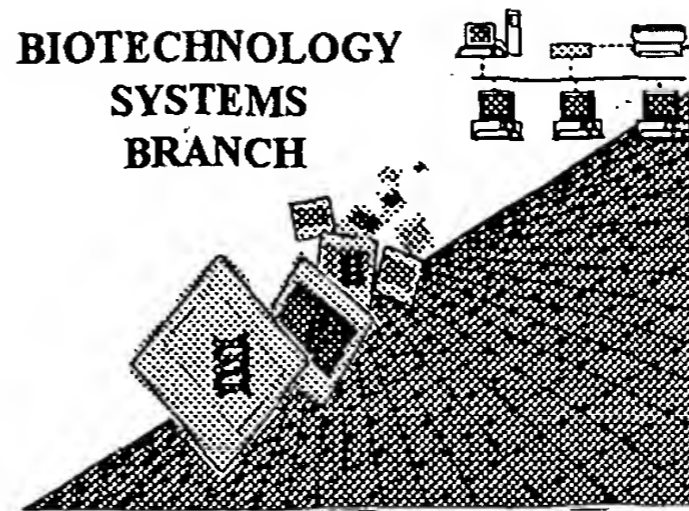


0280400

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/014,099
Source: OLPE
Date Processed by STIC: 1/2/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER**
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE: SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission

User Manual - ePAVE)

2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202

3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

Or

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/014,099

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering
The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length
Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
 (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 Invalid <213>
 Response
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220>
Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

OIPE

RAW SEQUENCE LISTING

DATE: 01/02/2002

PATENT APPLICATION: US/10/014,099

TIME: 14:02:03

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\01022002\J014099.raw

Does Not Comply
Corrected Diskette Needed
pr 6-7

OK

5 <110> APPLICANT: KUEHN, Ralf
 7 FELDER, Susanne
 9 SCHWENK, Frieder
 11 KUETER-LUKS, Birgit
 13 FAUST, Nicole
 17 <120> TITLE OF INVENTION: Modified Recombinase
 21 <130> FILE REFERENCE: 012787wo/JH/ml
 25 <140> CURRENT APPLICATION NUMBER: US/10/014,099
 27 <141> CURRENT FILING DATE: 2001-12-11
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/014,099

DATE: 01/02/2002

TIME: 14:02:03

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/014,099

DATE: 01/02/2002

TIME: 14:02:03

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/014,099

DATE: 01/02/2002

TIME: 14:02:03

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RAW SEQUENCE LISTING

DATE: 01/02/2002

PATENT APPLICATION: US/10/014,099

TIME: 14:02:03

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Output Set: N:\CRF3\01022002\J014099.raw

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511 <211> LENGTH: 5711
513 <212> TYPE: DNA
515 <213> ORGANISM: Artificial Sequence
519 <220> FEATURE:
521 <223> OTHER INFORMATION: Description of Artificial Sequence: vector
523     pCMV-C31-Int(wt)
527 <400> SEQUENCE: 10
529 aaacagtccg atgtacgggc cagatatacg cgttgacatt gattattgac tagttattaa 60
531 tagtaatcaa ttacgggggc attagttcat agcccatata tggagttccg cgttacataa 120
533 cttacggtaa atggcccgcg tggctgaccg cccaacgacc ccgcccatt gacgtcaata 180
535 atgacgtatg ttcccatagt aacgcccaata gggactttcc attgacgtca atgggtggac 240
537 tattttacggg aaactgccca cttggcagta catcaagtgt atcatatgcc aagtacgccc 300
539 cctattgacg tcaatgacgg taaatggccc gcctggcatt atgccagta catgacctta 360
541 tgggactttc ctacttgcca gtacatctac gtattagtca tcgctattac catggtgatg 420
543 cgggttttggc agtacatcaa tgggcgtgga tagcggtttg actcacgggg atttccaagt 480
545 ctccacccca ttgacgtcaa tgggagtttg ttttggcacc aaaatcaacg ggactttcca 540
547 aaatgtcgtg acaactccgc ccattgacg caaatgggcg gtaggcgtgt acggtgggag 600
549 gtctatataa gcagagctct ctggctaact agagaacca ctgcttactg gcttatcgaa 660
551 attaatacga ctactatag ggagacccaa gctgactcta gacttaatta agcgttgggg 720
553 tgagtactcc ctctcaaaag cgggcatgac ttctgcgcta agattgtcag tttccaaaaa 780
555 cgaggaggat ttgatattca cctggcccgc ggtgatgcct ttgaggggtg ccgcgtccat 840
557 ctggtcagaa aagacaatct ttttgttgtc aagcttgagg tgtggcaggc ttgagatctg 900
559 gccatacact tgagtacat tgacatccac tttgcctttc tctccacagg tgtccactcc 960
561 cagggcgggc gcccgatatg acacaagggg ttgtgaccgg ggtggacacg tacgcgggtg 1020
563 cttacgaccg tcagtcgcgc gagcgcgaga attcgagcgc agcaagccca gcgacacagc 1080
565 gtagcgccaa cgaagacaag gcggccgacc ttcagcgcga agtcgagcgc gacggggggc 1140
567 ggttcagggt cgtcgggcat ttcagcgaag cgccgggcac gtcggcggtc gggacggcgg 1200
569 agcgcgccga gttcgaacgc atcctgaacg aatgccgcgc cgggcggctc aacatgatca 1260
571 ttgtctatga cgtgtcgcgc ttctcgcgcc tgaaggtcat ggacgcgatt ccgattgtct 1320
573 cggaattgct cgccctgggc gtgacgattg ttccactca ggaaggcgtc ttccggcagg 1380
575 gaaacgtcat ggacctgatt cacctgatta tgcggctcga cgcgtcgcac aaagaatctt 1440
577 cgctgaagtc ggcgaagatt ctcgacacga agaaccttca gcgcgaattg ggcgggtacg 1500

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<210> 19
 <211> 840
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:
 oligonucleotide 80d

<400> 19
 ggtaccgagc tcggatcctc tagtaacggc cgccagtgtg ctggaattcg gcttcagcaa 60
 ccaggctccc cagcaggcag aagtatgcaa agcatgcatc tcaattagtc agcaaccagg 120
 tgtggaaagt ccccaggctc ccagcaggc agaagtatgc aaagcatgca tctcaattag 180
 tcagcaacca tagtcccgcc cctaactccg cccatcccgc ccctaactcc gccagttcc 240
 gccattctc cgccccatgg ctgactaatt ttttttattt atgcagagggc cgaggccgcc 300
 tcggcctagg aacagtcgac gacactgcag agacctactt cactaacaac cggtagagtt 360
 cgtggaccag atgggtgagg tggagtagcg gcccggggag cccaaagggt accccagttg 420
 gggcactact ccgaaaacc gcttctggat ccataacttc gtatagcata cattatacga 480
 agttataccg ggccaccatg gtcgcgagta gcttggcact ggggttgctt ttgcgngtc 540
 gtgactggga aaaccctggc gttacccaac ttaatcgctt tgcagcacat ccccttttcg 600
 ccagctggcg taatagcgaa gagggccgca ccgatcgccc ttcccaacag ttgcgcagct 660
 gaatggcgaa tggcgctttg cctggcttcc ggcaccagaa gcggtgccgg aaagctggct 720
 ggagtgcgat cttcctgagg ccgatactgt cgtcaagccg aattctgcag atatccatca 780
 cactggcggc cgctcgagca tgcactaga gggccaattc gccctatagt gagtcgtatt 840

→ see
 item 9
 on Enon
 summary
 sheet

FJ1
 Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

10/014,099 I

The types of errors shown exist throughout
the sequence listing. Please check subsequent
sequences for similar errors.

<210> 23

<211> 620

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: (DNA sequence
coding for fusion protein C31-Int (CNLS))

<400> 23

(MANDATORY)

Insert <223> whenever <221> / <222>
or <223>

This is an amended present
sequence

(see <2127 response)

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/014,099

DATE: 01/02/2002

TIME: 14:02:04

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\01022002\J014099.raw

L:25 M:270 C: Current Application Number differs, Replaced Application Number
L:27 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1861 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:19
L:1861 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:19
L:1861 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:2811 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:6635 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:7051 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:7457 M:258 W: Mandatory Feature missing, <220> FEATURE: